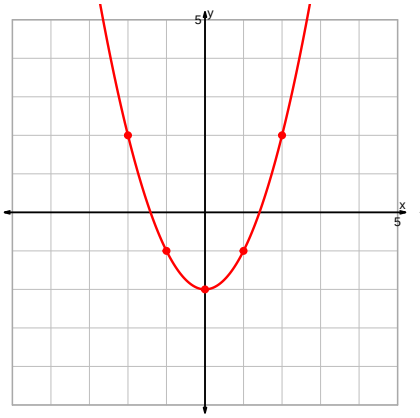
NAME: DATE:

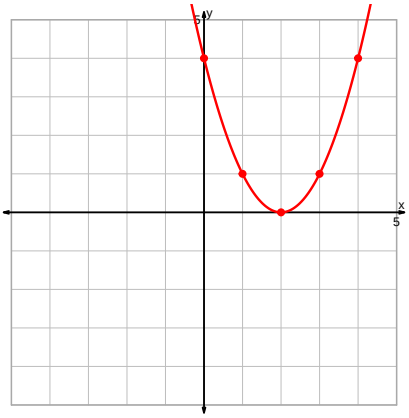
Unit-2 Reduced Mastery Assessment (version 319)

Question 1 (20 points)

Graph the equations accurately. For each integer-integer point on the parent, indicate the corresponding point precisely. Also, with dashed lines, indicate any asymptotes.

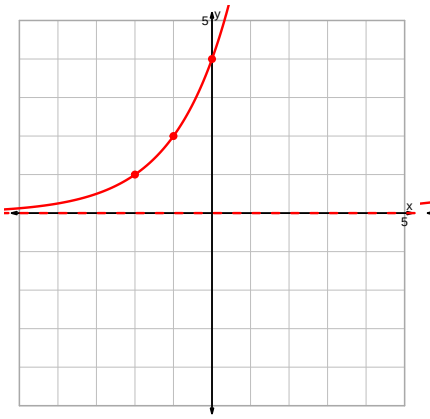
$y = x^2 - 2$

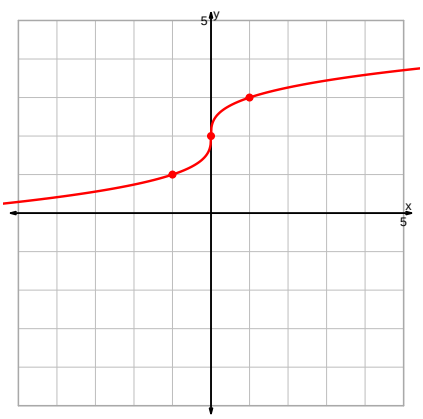




$y = (x - 2)^2$

$y = 2^{x+2}$

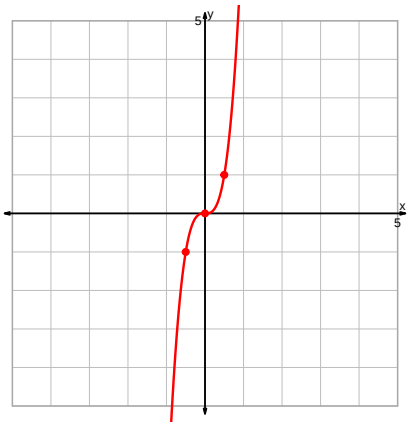


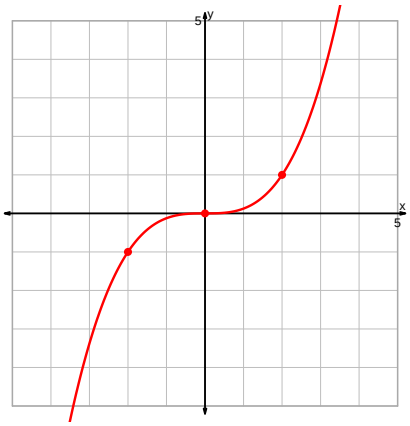


$y = \sqrt[3]{x} + 2$

Question 2 continued. . .

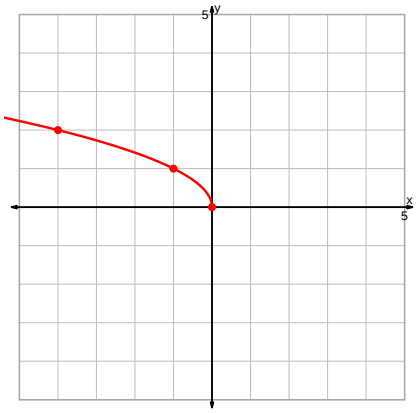
$y = (2x)^3$

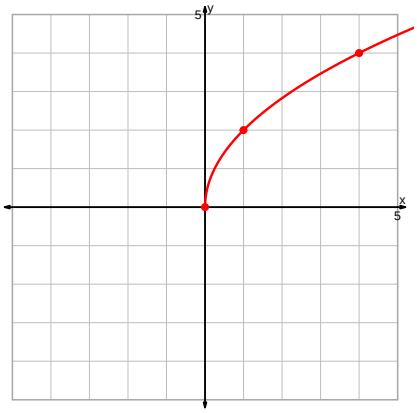




$y = \left(\frac{x}{2}\right)^3$

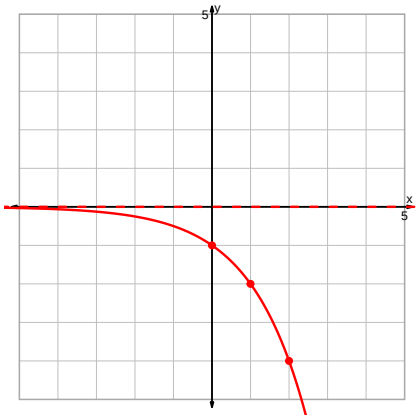
$y = \sqrt{-x}$

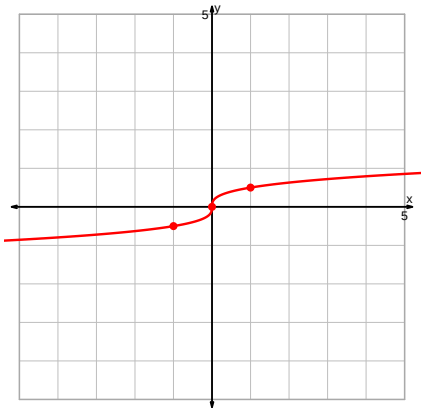




$y = 2 \cdot \sqrt{x}$

$y = -2^x$

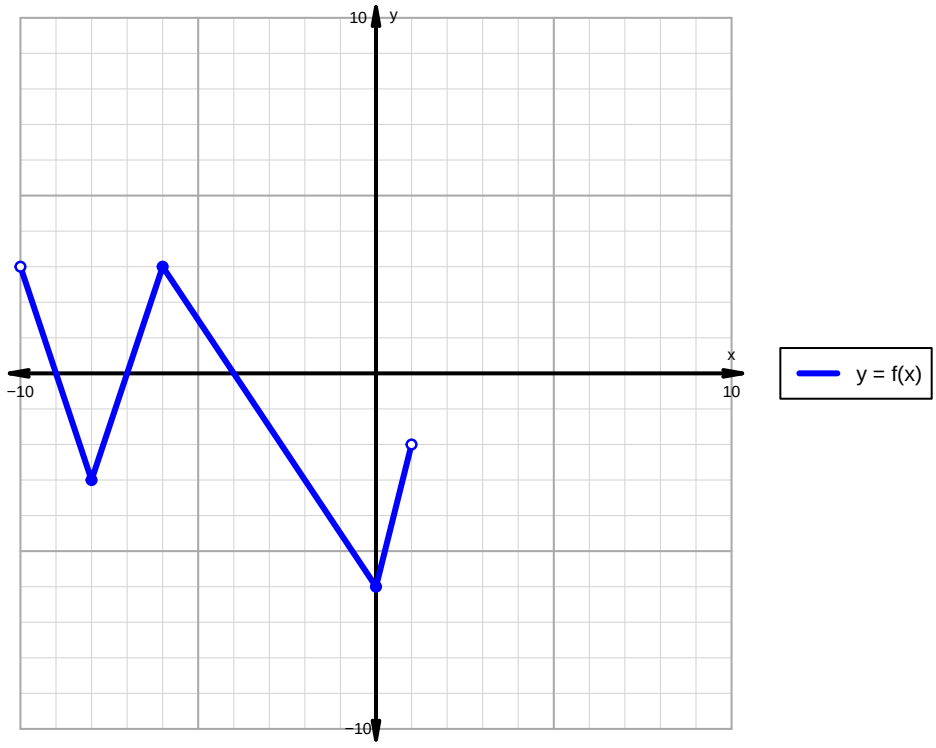




$y = \frac{\sqrt[3]{x}}{2}$

Question 2 (20 points)

A function is graphed below.



Indicate the following intervals using interval notation.

Feature	Where
Positive	$(-10,-9)\cup(-7,-4)$
Negative	$(-9,-7)\cup(-4,1)$
Increasing	$(-8,-6)\cup(0,1)$
Decreasing	$(-10,-8)\cup(-6,0)$
Domain	$(-10,1)$
Range	$(-6,3)$